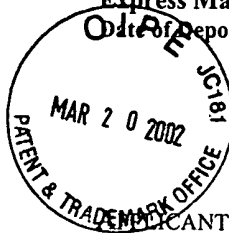


Express Mail Label No.: EV058074585US  
Date of Deposit: March 20, 2002

Attorney Docket No.: 21402-157 (Cura-457)

03-21-02

1645  
p#7



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Grosse, et al.  
SERIAL NUMBER: 09/976,782  
FILING DATE: October 12, 2001  
FOR: Novel Proteins and Nucleic Acids Encoding Same

EXAMINER: Not Yet Assigned  
ART UNIT: 1645

RECEIVED

MAR 26 2002

Box IDS  
Assistant Commissioner for Patents  
Washington, D.C. 20231

TECH CENTER 1600/2900



30623

TRANSMITTAL LETTER

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (2 pages), in duplicate;
2. Modified Form 1449/PTO (3 pages) in duplicate;
3. Copies of cited references C1-C53; and
4. Return Postcard

No fee is believed to be due at this time. However, the Commissioner is authorized to charge any fees that may be due to Deposit Account No. 50-0311, Reference No. 21402-157 (Cura-457). A duplicate copy of this transmittal letter is enclosed.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at 617/542-6000, Boston, Massachusetts.

Respectfully submitted,

Ivor R. Elrifi, Reg. No. 39,529  
Attorney for Applicants  
c/o MINTZ, LEVIN, COHN, FERRIS  
GLOVSKY AND POPEO, P.C.  
One Financial Center  
Boston, Massachusetts 02111  
Tel: (617) 542-6000  
Fax: (617) 542-2241

Dated: March 20, 2002

Express Mail Label No.: EV058074585US

Date of Deposit: March 20, 2002

Attorney Docket No. 21402-157 (Cura-457)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Grosse, et al.

SERIAL NUMBER:

09/976,782

EXAMINER: Not Yet Assigned

FILING DATE:

October 12, 2001

ART UNIT: 1645

FOR:

Novel Proteins and Nucleic Acids Encoding Same

RECEIVED

MAR 26 2002

TECH CENTER 1600/2900

**BOX IDS**

Commissioner for Patents

Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449, as well as copies of the listed documents.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the above-identified case. Accordingly, no fee or certification is believed required.

A copy of each of the references in the above-identified application is enclosed unless otherwise indicated on the attached modified Form PTO-1449. It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

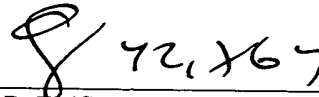
APPLICANTS:  
U.S.S.N.:

Grosse, et al.  
09/976,782

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Please charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 21402-157.

Respectfully submitted,

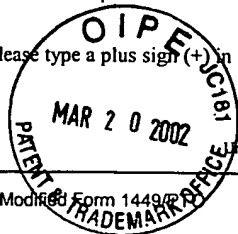
A handwritten signature in dark ink, appearing to read 'Ivor R. Elrifi', is written over a horizontal line.

Ivor R. Elrifi, Reg. No. 39,529  
Attorney for Applicants  
MINTZ, LEVIN, COHN, FERRIS,  
GLOVSKY and POPEO, P.C.  
One Financial Center  
Boston, Massachusetts 02111  
Tel: (617) 542-6000  
Fax: (617) 542-2241

Dated: March 20, 2002

TRA 1644055v1

Please type a plus sign (+) in this box



PTO/SB (12-97)  
Approved for use through 9/30/00. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Modified Form 1449/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)	<b>Application Number</b>	09/976,782
	<b>Filing Date</b>	October 12, 2001
	<b>First Named Inventor</b>	Grosse
	<b>Group Art Unit</b>	1645
	<b>Examiner Name</b>	Not Yet Assigned
	<b>Attorney Docket Number</b>	21402-157

## U.S. PATENT DOCUMENTS

Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate

## FOREIGN PATENT DOCUMENTS

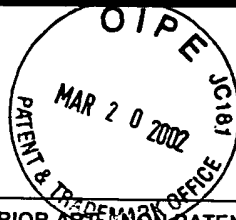
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
/	C1	Alderborn, et al. (2000). "Determination of single-nucleotide polymorphisms by real-time pyrophosphate DNA sequencing." <i>Genome Res</i> 10(8): 1249-58.
/	C2	Armstrong, et al. (1998). "Spatial distribution of diffuse, primitive, and classic amyloid-beta deposits and blood vessels in the upper laminae of the frontal cortex in Alzheimer disease." <i>Alzheimer Dis Assoc Disord</i> 12(4): 378-83.
/	C3	Avraham, et al. (1995). "Structural and functional studies of the intracellular tyrosine kinase MATK gene and its translated product." <i>J Biol Chem</i> 270(4): 1833-42.
/	C4	Baguley, et al. (1993). "Serotonin involvement in the antitumour and host effects of flavone-8- acetic acid and 5,6-dimethylxanthenone-4-acetic acid." <i>Cancer Chemother Pharmacol</i> 33(1): 77-81.
/	C5	Barletta, et al. (1990). "Subchromosomal localization of two human cytokeratin genes (KRT4 and KRT15) by in situ hybridization." <i>Cytogenet Cell Genet</i> 54(3-4): 148-50.
/	C6	Bennett, et al. (1994). "Identification and characterization of a novel tyrosine kinase from megakaryocytes." <i>J Biol Chem</i> 269(2): 1068-74.
/	C7	Brown, et al. (2000). "Cerebrovascular pathology in Alzheimer's disease and leukoaraiosis." <i>Ann N Y Acad Sci</i> 903: 39-45.
/	C8	D'Amato, et al. (2000). "Seizures induce widespread upregulation of cystatin B, the gene mutated in progressive myoclonus epilepsy, in rat forebrain neurons." <i>Eur J Neurosci</i> 12(5): 1687-95.
/	C9	Deak, et al. (1997). "Primary structure and expression of matrilin-2, the closest relative of cartilage matrix protein within the von Willebrand factor type A-like module superfamily." <i>J Biol Chem</i> 272(14): 9268-74.
/	C10	Derry, et al. (2000). "Sik (BRK) phosphorylates Sam68 in the nucleus and negatively regulates its RNA binding ability." <i>Mol Cell Biol</i> 20(16): 6114-26.
/	C11	Drebin, et al. (1995). "Molecular cloning and chromosomal localization of the human homologue of a B-lymphocyte specific protein tyrosine kinase (blk)." <i>Oncogene</i> 10(3): 477-86.
/	C12	Dymecki, et al. (1990). "Specific expression of a tyrosine kinase gene, blk, in B lymphoid cells." <i>Science</i> 247(4940): 332-6.
/	C13	Fuchs (1988). "Keratins as biochemical markers of epithelial differentiation." <i>Trends Genet</i> 4(10): 277-81.
/	C14	Geisert, et al. (1992). "A CNS specific proteoglycan associated with astrocytes in rat optic nerve." <i>Brain Res</i> 571(1): 165-8.

TECH CENTER 1600/2900

MAR 26 2002



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
/	C15	GenBank Accession Number: A56040 (02-JUN-2000).
/	C16	GenBank Accession Number: AF181263 (10-MAR-2000).
/	C17	GenBank Accession Number: AJ007581 (24-NOV-1998).
/	C18	GenBank Accession Number: D26186 (06-FEB-1999).
/	C19	GenBank Accession Number: L03558 (12-JUN-1993).
/	C20	GenBank Accession Number: M37033 (03-MAR-1994).
/	C21	GenBank Accession Number: P04080 (16-OCT-2001).
/	C22	GenBank Accession Number: P19397 (16-OCT-2001).
/	C23	GenBank Accession Number: P35365 (01-OCT-1996).
/	C24	GenBank Accession Number: Q13882 (01-MAR-2002).
/	C25	GenBank Accession Number: U97107 (19-MAR-1998).
/	C26	GenBank Accession Number: X03491 (12-SEP-1993).
/	C27	GenBank Accession Number: X07695 (13-JUL-1995).
/	C28	GenBank Accession Number: X69867 (26-MAY-1993).
/	C29	Islam, et al. (1995). "Molecular cloning, characterization, and chromosomal localization of a human lymphoid tyrosine kinase related to murine Blk." <i>J Immunol</i> 154(3): 1265-72.
/	C30	Jay, et al. (1997). "Isolation and regional mapping of cDNAs expressed during early human development." <i>Genomics</i> 39(1): 104-8.
/	C31	Kamalati, et al. (1996). "Brk, a breast tumor-derived non-receptor protein-tyrosine kinase, sensitizes mammary epithelial cells to epidermal growth factor." <i>J Biol Chem</i> 271(48): 30956-63.
/	C32	Klages, et al. (1994). "Ctk: a protein-tyrosine kinase related to Csk that defines an enzyme family." <i>Proc Natl Acad Sci USA</i> 91(7): 2597-601.
/	C33	Korge, et al. (1990). "Effect of retinoids on hyperproliferation-associated keratins K6 and K16 in cultured human keratinocytes: a quantitative analysis." <i>J Invest Dermatol</i> 95(4): 450-5.
/	C34	Kozak, et al. (1991). "Genetic mapping of the gene for a novel tyrosine kinase, Blk, to mouse chromosome 14." <i>Genomics</i> 9(4): 762-4.
/	C35	Leake, et al. (2000). "Brain matrix metalloproteinase 1 levels are elevated in Alzheimer's disease." <i>Neurosci Lett</i> 291(3): 201-3.
/	C36	Merrick, et al. (1995). "Glial cells of the lamprey nervous system contain keratin-like proteins." <i>J Comp Neurol</i> 355(2): 199-210.
/	C37	Mischke and Wild (1987). "Polymorphic keratins in human epidermis." <i>J Invest Dermatol</i> 88(2): 191-7.
/	C38	Mischke, et al. (1990). "Allele frequencies and segregation of human polymorphic keratins K4 and K5." <i>Am J Hum Genet</i> 46(3): 548-52.
/	C39	Mitchell, et al. (1994). "Cloning and characterisation of cDNAs encoding a novel non-receptor tyrosine kinase, brk, expressed in human breast tumours." <i>Oncogene</i> 9(8): 2383-90.
/	C40	Pennacchio, et al. (1998). "Progressive ataxia, myoclonic epilepsy and cerebellar apoptosis in cystatin B-deficient mice." <i>Nat Genet</i> 20(3): 251-8.
/	C41	Robson and Geisert, Jr. (1994). "Expression of a keratin sulfate proteoglycan during development of the dorsal lateral geniculate nucleus in the ferret." <i>J Comp Neurol</i> 340(3): 349-60.
/	C42	Rocha, et al. (1998). "Cocaine self-administration in dopamine-transporter knockout mice." <i>Nat Neurosci</i> 1(2): 132-7.
/	C43	Romano, et al. (1988). "Chromosomal assignments of human type I and type II cytokeratin genes to different chromosomes." <i>Cytogenet Cell Genet</i> 48(3): 148-51.
/	C44	Rugg, et al. (1995). "A mutation in the mucosal keratin K4 is associated with oral white sponge nevus." <i>Nat Genet</i> 11(4): 450-2.
/	C45	Sakano, et al. (1994). "Molecular cloning of a novel non-receptor tyrosine kinase, HYL (hematopoietic consensus tyrosine-lacking kinase)." <i>Oncogene</i> 9(4): 1155-61.
/	C46	Schaller, et al. (1990). "[Differentiation behavior of human vaginal epithelium exemplified by keratin expression]." <i>Geburtshilfe Frauenheilkd</i> 50(5): 397-402. (English abstract)
/	C47	Stryker and Zahs (1983). "On and off sublaminae in the lateral geniculate nucleus of the ferret." <i>J Neurosci</i> 3(10): 1943-51.

RECEIVED  
MAR 26 2002  
TECH CENTER 1600/2900

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
/	C48	SWALL (SPTR) Accession Number: O35949 (1-MAR-2002).
/	C49	Terrinoni, et al. (2000). "A glutamine insertion in the 1A alpha helical domain of the keratin 4 gene in a familial case of white sponge nevus." <i>J Invest Dermatol</i> 114(2): 388-91.
/	C50	Wagener, et al. (1998). "Genomic organisation, alternative splicing and primary structure of human matrilin-4." <i>FEBS Lett</i> 438(3): 165-70.
/	C51	Wootton and Federhen (1996). "Analysis of compositionally biased regions in sequence databases." <i>Methods Enzymol</i> 266: 554-71.
	C52	Zhao, et al. (2001). "Effects of the serotonin receptor antagonist cyproheptadine on the activity and pharmacokinetics of 5,6-dimethylxanthenone-4-acetic acid (DMXAA)." <i>Cancer Chemother Pharmacol</i> 47(6): 491-7.
	C53	Zrihan-Licht, et al. (1997). "Association of csk-homologous kinase (CHK) (formerly MATK) with HER-2/ErbB-2 in breast cancer cells." <i>J Biol Chem</i> 272(3): 1856-63.

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.